

PAD1, PAD2, PAD5

Low Leakage Pico-Amp Diode

High Impedance Protection Circuits

Absolute maximum ratings at $T_A = 25^\circ\text{C}$

Continuous Forward Gate Current

50 mA

Storage Temperature Range

- 55°C to + 125°C

Lead Temperature

300°C

At 25°C free air temperature:

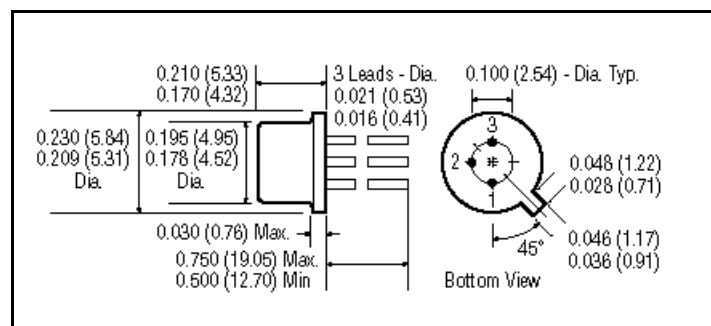
Electrical Characteristics

		PAD1			PAD2			Process NJ01	
		Min	Typ	Max	Min	Typ	Max	Unit	Test Conditions
Reverse Current	I_R			- 1			- 2	pA	$V_R = - 20\text{V}$
Breakdown Reverse Voltage	BV_R	- 45			- 45			V	$I_R = - 1\ \mu\text{A}$
Forward Voltage Drop	V_F		0.8	1.5		0.8	1.5	V	$I_F = 5\ \text{mA}$
Capacitance	C_R			0.8			0.8	pF	$V_R = - 5\ \text{V}$ $f = 1\ \text{MHz}$

At 25°C free air temperature:

Electrical Characteristics

		PAD5			Process NJ01	
		Min	Typ	Max	Unit	Test Conditions
Reverse Current	I_R			- 5	pA	$V_R = - 20\text{V}$
Breakdown Reverse Voltage	BV_R	- 45			V	$I_R = - 1\ \mu\text{A}$
Forward Voltage Drop	V_F		0.8	1.5	V	$I_F = 5\ \text{mA}$
Capacitance	C_R			0.8	pF	$V_R = - 5\ \text{V}$ $f = 1\ \text{MHz}$



TO-18 Package

Dimensions in Inches (mm)

Pin Configuration

1 Cathode, 2 Case, 3 Anode

Surface Mount(SOT23)

TO-236 Package

See Section G for Outline Dimensions

Pin Configuration

1 Cathode, 2 Cathode, 3 Anode